

## EAST UPDATE 9/738,066

L Number	Hits	Search Text	DB	Time stamp
1	523	((514/258) or (544/279)).CCLS.	USPAT; US-PGPUB	2004/05/18 15:28
2	171	pyrido WITH (pyrimidinyl or pyrimidyl or pyrimidin)	USPAT; US-PGPUB	2004/05/18 15:29
3	26	((514/258) or (544/279)).CCLS.) and (pyrido WITH (pyrimidinyl or pyrimidyl or pyrimidin))	USPAT; US-PGPUB	2004/05/18 15:31
4	145	(pyrido WITH (pyrimidinyl or pyrimidyl or pyrimidin)) not (((514/258) or (544/279)).CCLS.) and (pyrido WITH (pyrimidinyl or pyrimidyl or pyrimidin)))	USPAT; US-PGPUB	2004/05/18 15:31

09/ 738,066

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 JAN 27 Source of Registration (SR) information in REGISTRY updated  
and searchable  
NEWS 4 JAN 27 A new search aid, the Company Name Thesaurus, available in  
CA/CAPLUS  
NEWS 5 FEB 05 German (DE) application and patent publication number format  
changes  
NEWS 6 MAR 03 MEDLINE and LMEEDLINE reloaded  
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded  
NEWS 8 MAR 03 FRANCEPAT now available on STN  
NEWS 9 MAR 29 Pharmaceutical Substances (PS) now available on STN  
NEWS 10 MAR 29 WPIFV now available on STN  
NEWS 11 MAR 29 New monthly current-awareness alert (SDI) frequency in RAPRA  
NEWS 12 APR 26 PROMT: New display field available  
NEWS 13 APR 26 IFIPAT/IFIUDB/IFICDB: New super search and display field  
available  
NEWS 14 APR 26 LITALERT now available on STN  
NEWS 15 APR 27 NLDB: New search and display fields available  
NEWS 16 May 10 PROUSDDR now available on STN  
NEWS 17 May 19 PROUSDDR: One FREE connect hour, per account, in both May  
and June 2004  
NEWS 18 May 12 EXTEND option available in structure searching  
NEWS 19 May 12 Polymer links for the POLYLINK command completed in REGISTRY  
NEWS 20 May 17 FRFULL now available on STN

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 15:55:51 ON 18 MAY 2004

09/ 738,066

=> file reg  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 15:55:58 ON 18 MAY 2004  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 17 MAY 2004 HIGHEST RN 682740-60-9  
DICTIONARY FILE UPDATES: 17 MAY 2004 HIGHEST RN 682740-60-9

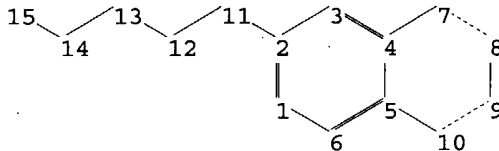
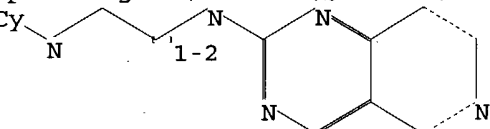
ESCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>  
Uploading C:\STNEXP4\QUERIES\09738066.str



chain nodes :

1 12 13 14 15

ring nodes :

2 3 4 5 6 7 8 9 10

chain bonds :

2-11 11-12 12-13 13-14 14-15

ring bonds :

2-2 1-6 2-3 3-4 4-5 4-7 5-6 5-10 7-8 8-9 9-10

exact/norm bonds :

2-11 4-7 5-10 7-8 8-9 9-10 11-12 13-14 14-15

exact bonds :

2-13

normalized bonds :

2-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

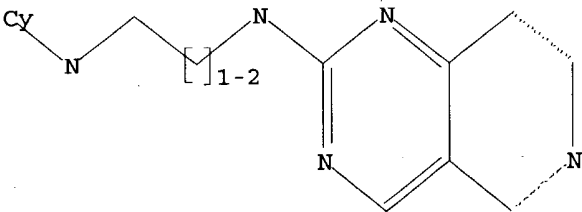
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:CLASS  
12:CLASS 13:CLASS 14:CLASS 15:Atom

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L1        STRUCTURE UPLOADED

=> d l1  
L1 HAS NO ANSWERS  
L1        STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful  
FULL SEARCH INITIATED 15:56:22 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 7972 TO ITERATE

100.0% PROCESSED        7972 ITERATIONS        12 ANSWERS  
SEARCH TIME: 00.00.01

L2        12 SEA SSS FUL L1

=> file caplus  
COST IN U.S. DOLLARS        SINCE FILE        TOTAL  
                                 ENTRY        SESSION  
FULL ESTIMATED COST        155.42        155.63

FILE 'CAPLUS' ENTERED AT 15:56:26 ON 18 MAY 2004  
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FILE COVERS 1907 - 18 May 2004    VOL 140 ISS 21  
FILE LAST UPDATED: 17 May 2004    (20040517/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l2  
L3        1 L2

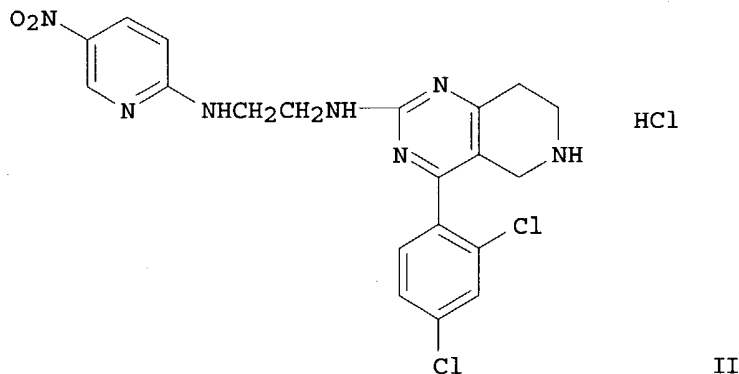
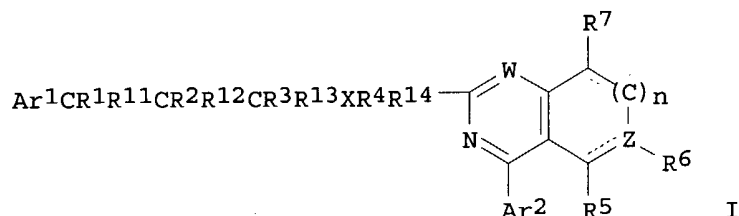
=> d l3 1- ibib abs hitstr  
YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y

L3    ANSWER 1 OF 1    CAPLUS    COPYRIGHT 2004 ACS on STN

09/ 738,066

ACCESSION NUMBER: 2001:453065 CAPLUS  
DOCUMENT NUMBER: 135:46199  
TITLE: Bicyclic inhibitors of glycogen synthase kinase 3  
INVENTOR(S): Nuss, John M.; Zhou, Xiaohui A.  
PATENT ASSIGNEE(S): Chiron Corp., USA  
SOURCE: PCT Int. Appl., 63 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001044246	A1	20010621	WO 2000-US34049	20001214
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:				
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1240168	A1	20020918	EP 2000-989272	20001214
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003516991	T2	20030520	JP 2001-544736	20001214
US 2001044436	A1	20011122	US 2000-738066	20001215
US 2003008866	A1	20030109	US 2002-228621	20020826
PRIORITY APPLN. INFO.:			US 1999-172403P	P 19991217
			WO 2000-US34049	W 20001214
			US 2000-738066	A1 20001215
OTHER SOURCE(S):		MARPAT 135:46199		
GI				



AB Bicyclic compds. I [W,X, Y, Z = (un)substituted C, N, S; n = 0-2; Ar1, Ar2 = (un)substituted aryl, aryloxy, arylamino, heteroaryl; R1-R4 = H, (un)substituted OH, alkyl, cycloalkyl, amino, acyl, aryl, heteroaryl; R11-R14 = H, (un)substituted alkyl; R5-R7 = H, OH, halo, CO2H, NO2, CN, (un)substituted alkyl, cycloalkyl, heterocyclyl, alkoxy, aryl, acyl, acyloxy, amino, amido, amidino, imido, arylsulfonyl, arylsulfonamido] were prepared for use in inhibiting the activity of glycogen synthase kinase (GSK3) in vitro and a treatment of GSK3 mediated disorders in vivo, such as diabetes, Alzheimer's disease and other neurodegenerative disorders, obesity, atherosclerotic cardiovascular disease, essential hypertension, polycystic ovary syndrome, syndrome X, ischemia, traumatic brain injury, bipolar disorder, immunodeficiency or cancer. Thus, the pyridopyrimidine II was prepared from Me 4-oxo-3-piperidinecarboxylate in 7 steps. I have IC50 against GSK3 of  $\leq 1 \mu\text{M}$ .

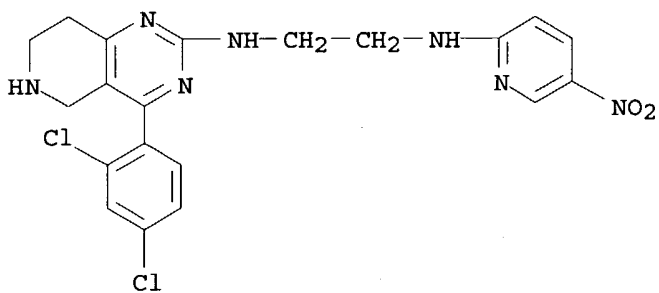
IT 344958-30-1P 344958-31-2P 344958-32-3P  
344958-35-6P 344958-38-9P 344958-43-6P  
344958-44-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of pyridopyrimidines as inhibitors of glycogen synthase kinase 3)

RN 344958-30-1 CAPLUS

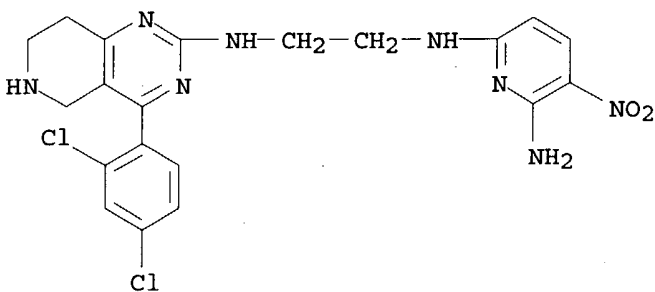
CN 1,2-Ethanediamine, N-[4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]-N'-(5-nitro-2-pyridinyl)-, hydrochloride (9CI) (CA INDEX NAME)

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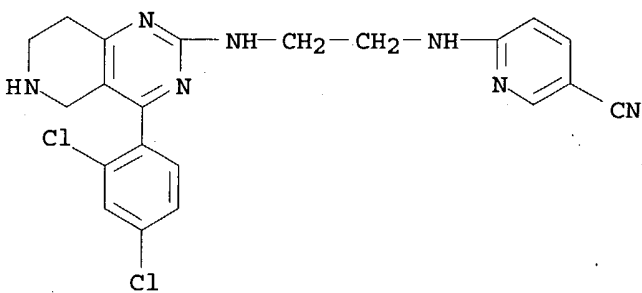
●x HCl

RN 344958-31-2 CAPLUS  
CN 2,6-Pyridinediamine, N6-[2-[[4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]amino]ethyl]-3-nitro-, hydrochloride  
(9CI) (CA INDEX NAME)



●x HCl

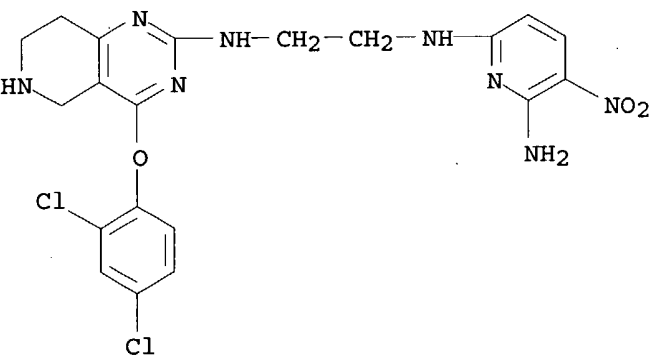
RN 344958-32-3 CAPLUS  
CN 3-Pyridinecarbonitrile, 6-[[2-[[4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]amino]ethyl]amino]-, hydrochloride  
(9CI) (CA INDEX NAME)



●x HCl

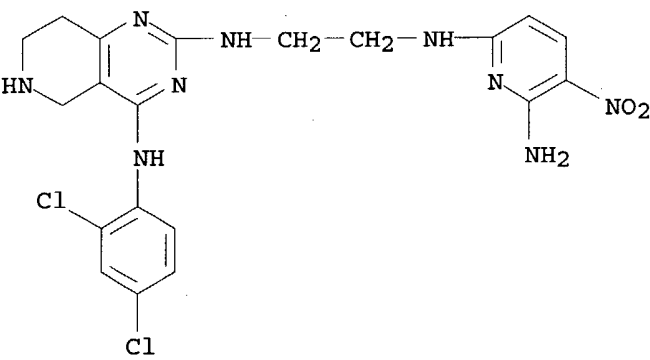
09/ 738,066

RN 344958-35-6 CAPLUS  
CN 2,6-Pyridinediamine, N6-[2-[[4-(2,4-dichlorophenoxy)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-2-yl]amino]ethyl]-3-nitro-, hydrochloride (9CI) (CA INDEX NAME)



●x HCl

RN 344958-38-9 CAPLUS  
CN Pyrido[4,3-d]pyrimidine-2,4-diamine, N2-[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]-N4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydro-, hydrochloride (9CI) (CA INDEX NAME)

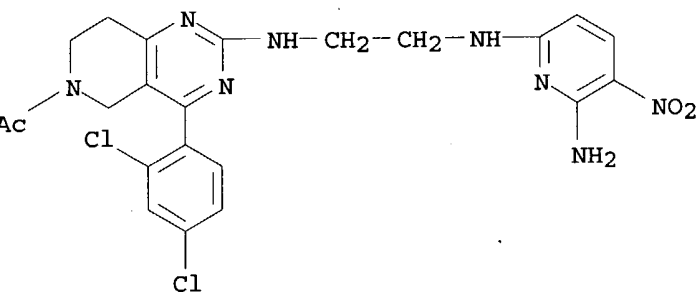


●x HCl

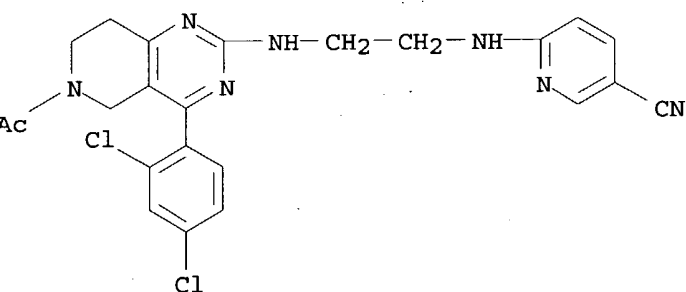
RN 344958-43-6 CAPLUS  
CN Pyrido[4,3-d]pyrimidin-2-amine, 6-acetyl-N-[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]-4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)



09/ 738,066

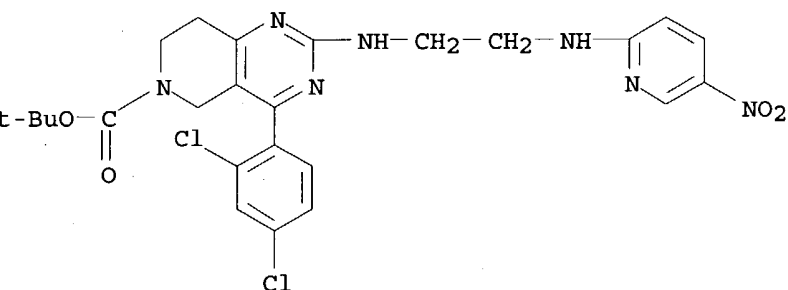


RN 344958-44-7 CAPLUS  
CN Pyrido[4,3-d]pyrimidin-2-amine, 6-acetyl-N-[2-[(5-cyano-2-pyridinyl)amino]ethyl]-4-(2,4-dichlorophenyl)-5,6,7,8-tetrahydro- (9CI)  
(CA INDEX NAME)

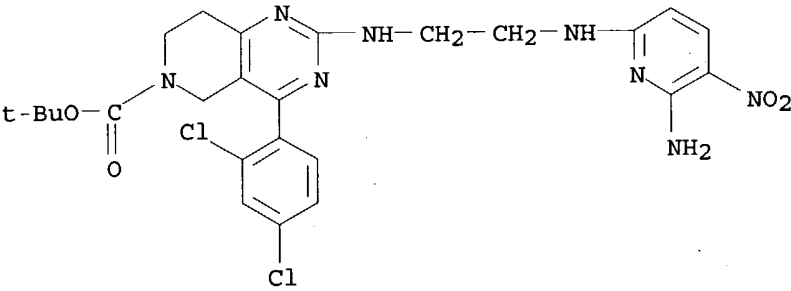


IT 344958-45-8P 344958-46-9P 344958-47-0P  
344958-48-1P 344958-49-2P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation of pyridopyrimidines as inhibitors of glycogen synthase kinase  
3)

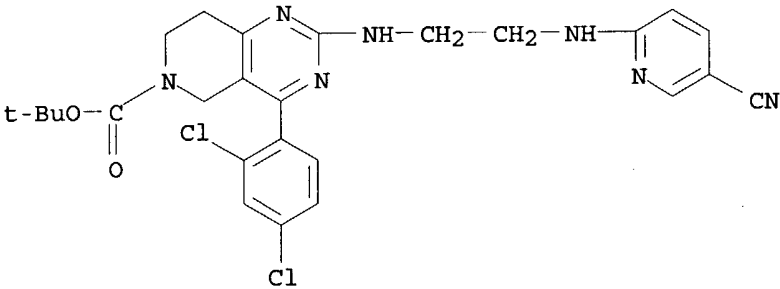
RN 344958-45-8 CAPLUS  
CN Pyrido[4,3-d]pyrimidine-6(5H)-carboxylic acid, 4-(2,4-dichlorophenyl)-7,8-dihydro-2-[[2-[(5-nitro-2-pyridinyl)amino]ethyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



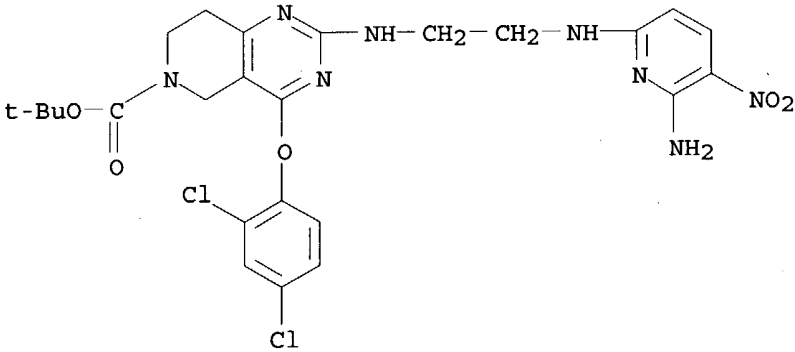
RN 344958-46-9 CAPLUS  
CN Pyrido[4,3-d]pyrimidine-6(5H)-carboxylic acid, 2-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-4-(2,4-dichlorophenyl)-7,8-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 344958-47-0 CAPLUS  
CN Pyrido[4,3-d]pyrimidine-6(5H)-carboxylic acid, 2-[[2-[(5-cyano-2-pyridinyl)amino]ethyl]amino]-4-(2,4-dichlorophenyl)-7,8-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

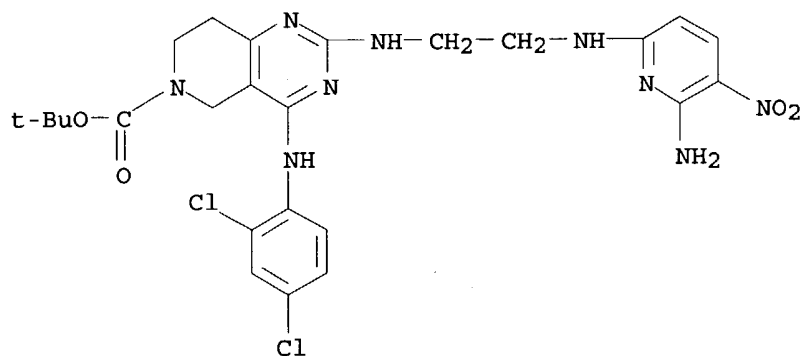


RN 344958-48-1 CAPLUS  
CN Pyrido[4,3-d]pyrimidine-6(5H)-carboxylic acid, 2-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-4-(2,4-dichlorophenoxy)-7,8-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 344958-49-2 CAPLUS  
CN Pyrido[4,3-d]pyrimidine-5(6H)-carboxylic acid, 2-[[2-[(6-amino-5-nitro-2-pyridinyl)amino]ethyl]amino]-4-[(2,4-dichlorophenyl)amino]-7,8-dihydro-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

09/ 738,066



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 15:55:51 ON 18 MAY 2004)

FILE 'REGISTRY' ENTERED AT 15:55:58 ON 18 MAY 2004

L1 STRUCTURE UPLOADED  
L2 12 S L1 FUL

FILE 'CAPLUS' ENTERED AT 15:56:26 ON 18 MAY 2004

L3 1 S L2

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
5.19	160.82

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.69	-0.69

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STN INTERNATIONAL LOGOFF AT 15:56:51 ON 18 MAY 2004